

ATTORNEY DOCKET NO. 19308.0021U1  
APPLICATION NO. 10/712,136  
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1           5.     (Original)     The power control system of claim 4, wherein the adjustable  
2     buck voltage converter reduces supply current to the power amplifier until saturation of the  
3     power amplifier is detected.

1           6.     (Original)     The power control system of claim 1, wherein the secondary  
2     control signal is used to control the variable attenuator to reduce attenuation in the first  
3     power control loop, and further comprising:

4             an adjustable buck voltage converter responsive to the secondary control signal, the  
5     adjustable buck voltage converter configured to reduce the power supplied to the power  
6     amplifier in response to the secondary control signal until saturation of the power amplifier  
7     is detected.

1           7.     (Currently amended)     A method for operating a power control loop for a  
2     power amplifier, comprising:

3             measuring a power level of a signal output from the power amplifier;

4             generating an error signal by comparing the power level of the signal output from the  
5     power amplifier to a first reference signal;

6             generating a primary control signal responsive to the error signal in a primary control  
7     loop; and

8             deriving a secondary control signal responsive to the error signal and a second  
9     reference signal, and

*using the secondary control signal to control a gain  
applied to the signal output from the amplifier.*

1           8.     (Original)     The method of claim 7, further comprising:

2             using the secondary control signal to control a gain applied to the signal output from  
3     the power amplifier.

1           9.     (Original)     The method of claim <sup>7</sup>8, wherein the gain applied to the signal  
2     output from the power amplifier is controlled by a variable attenuator, the variable attenuator  
3     configured to receive the signal output from the power amplifier.

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1           10.   (Original)   The method of claim 7, further comprising:  
2           using the secondary control signal to control an adjustable buck voltage converter,  
3           the adjustable buck voltage converter configured to provide a supply current to the power  
4           amplifier.

1           11.   (Original)   The method of claim 10, wherein the adjustable buck voltage  
2           converter reduces supply current to the power amplifier until saturation of the power  
3           amplifier is detected.

1           12.   (Original)   The method of claim 7, further comprising:  
2           using the secondary control signal to control a gain applied to the signal output from  
3           the power amplifier; and  
4           using the secondary control signal to control an adjustable buck voltage converter,  
5           the adjustable buck voltage converter configured to provide a supply current to the power  
6           amplifier, wherein the adjustable buck voltage converter reduces supply current to the power  
7           amplifier until saturation of the power amplifier is detected.

1           13.   (Currently amended) A system for operating a power control loop for a  
2           power amplifier, comprising:  
3           means for measuring a power level of a signal output from the power amplifier;  
4           means for generating an error signal by comparing the power level of the signal  
5           output from the power amplifier to a first reference signal;  
6           means for generating a primary control signal responsive to the error signal in a  
7           primary control loop; and  
8           means for deriving a secondary control signal responsive to the error signal and a  
9           second reference signal, and

1           14.   (Original)   The system of claim 13, further comprising:  
2           means for using the secondary control signal to control a gain applied to the signal  
3           output from the power amplifier.

*means for using the secondary control signal to control a gain applied to the signal output from the amplifier.*

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1 15. (Original) The system of claim 14, wherein the gain applied to the signal  
2 output from the power amplifier is controlled by a variable attenuator means, the variable  
3 attenuator means for receiving the signal output from the power amplifier.

1 16. (Original) The system of claim 13, further comprising:  
2 means for using the secondary control signal to control an adjustable buck voltage  
3 converter means, the adjustable buck voltage converter means for providing a supply current  
4 to the power amplifier.

1 17. (Original) The system of claim 16, wherein the adjustable buck voltage  
2 converter means reduces supply current to the power amplifier until saturation of the power  
3 amplifier is detected.

1 18. (Original) The system of claim 13, further comprising:  
2 means for using the secondary control signal to control a gain applied to the signal  
3 output from the power amplifier; and  
4 means for using the secondary control signal to control an adjustable buck voltage  
5 converter means, the adjustable buck voltage converter means for providing a supply current  
6 to the power amplifier, wherein the adjustable buck voltage converter means reduces supply  
7 current to the power amplifier until saturation of the power amplifier is detected.

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